



MI-642 Floor Slide

## MI-640 Family of Floor Slides

The MI-640 Family of Floor Slides provides precision linear motion for positioning systems with high capacities available to 72,000 lbs (32,700 kg). A modular design also allows for extensible travel lengths.

### Description

The MI-640 Family of Floor Slides offers three classes of linear positioning solutions for light, medium and heavy duty load requirements. The slides are modular in design starting with a base module containing the drive motor and system connection bulkheads. Standard extension modules can be added as needed to readily build a linear travel solution for most requirements. All three classes offer motorized linear speeds up to 5 ft/min (1.52 m/min). Manual drive systems are also available.

All MI-640 floor slides are available with Manual (-H) or Motorized (-M) options and consist of one base module minimum. Additional extension modules are added to meet or exceed the desired travel length. See the table below for standard configurations. These slides come with a cable carrier for motor control and feedback. A second cable carrier is available for RF, control and other cabling for units above the MI-640 slide. Contact the factory for additional configurations and customizations.

### Applications

Floor slides are primarily used as the base element of a positioning system stack. They allow an entire stack of azimuth, elevation and other linear and rotary axes to be repositioned linearly on the range. This ability to accurately recenter the positioning stack is critical for multipurpose systems. The floor slide is often the most straightforward way to provide significant flexibility and rapid reconfiguration.

## Specifications

Model	MI-642	MI-643	MI-644
Base Length Travel in. (cm)	49 (124)	42 (107)	76 (193)
Base Length Overall in. (cm)	104 (264)	104 (264)	144 (366)
Extension Length Travel in. (cm)	43 (109)	43 (109)	43 (109)
Extension Length Overall in. (cm)	44 (112)	44 (112)	44 (112)
Width in. (cm)	39 (99)	48 (12)	61 (155)
Accuracy in. (mm) typ.	±0.06 (±1.5)	±0.06 (±1.5)	±0.06 (±1.5)
Vertical Load lbs (kg)	24,000 (10,800)	45,000 (20,400)	72,000 (32,700)
Bending Moment ft-lbs (N-m)	30,000 (40,600)	68,000 (92,200)	142,000 (192,500)
Max Speed ft/min (m/min)	5 (1.5)	5 (1.5)	5 (1.5)

## Configuration Options

Model	Description
MI-642-M-004	Light-Duty Slide, Motorized Drive, 4 ft (1.2 m) Travel
MI-642-H-004	Light-Duty Slide, Manual Drive, 4 ft (1.2 m) Travel
MI-642-M-007	Light-Duty Slide, Motorized Drive, 7.7 ft (2.3 m) Travel
MI-642-H-007	Light-Duty Slide, Manual Drive, 7.7 ft (2.3 m) Travel
MI-642-M-011	Light-Duty Slide, Motorized Drive, 11 ft (3.4 m) Travel
MI-642-H-011	Light-Duty Slide, Manual Drive, 11 ft (3.4 m) Travel
MI-643-M-003	Medium-Duty Slide, Motorized Drive, 3.5 ft (1.1 m) Travel
MI-643-H-003	Medium-Duty Slide, Manual Drive, 3.5 ft (1.1 m) Travel
MI-643-M-007	Medium-Duty Slide, Motorized Drive, 7 ft (2.1 m) Travel
MI-643-H-007	Medium-Duty Slide, Manual Drive, 7 ft (2.1 m) Travel
MI-643-M-010	Medium-Duty Slide, Motorized Drive, 10.5 ft (3.2 m) Travel
MI-643-H-010	Medium-Duty Slide, Manual Drive, 10.5 ft (3.2 m) Travel
MI-644-M-006	Heavy-Duty Slide, Motorized Drive, 6.3 ft (1.9 m) Travel
MI-644-H-006	Heavy-Duty Slide, Manual Drive, 6.3 ft (1.9 m) Travel
MI-644-M-010	Heavy-Duty Slide, Motorized Drive, 10 ft (3.0 m) Travel
MI-644-H-010	Heavy-Duty Slide, Manual Drive, 10 ft (3.0 m) Travel
MI-644-M-013	Heavy-Duty Slide, Motorized Drive, 13.5 ft (4.1 m) Travel
MI-644-H-013	Heavy-Duty Slide, Manual Drive, 13.5 ft (4.1 m) Travel

All specifications are subject to change without notice. If testing is required to verify these published specifications, or if special testing is desired, please consult the factory for a quotation.

